

## ABSTRACT

The present invention provides method, data transfer controller and system for asynchronously transferring data. The method allows to provide a buffer device. The method further allows to define in the buffer device a plurality of buffer segments. Respective ones of the buffer segments are filled with data from at least one data source device operating in a respective clock domain. Upon any respective buffer segment being filled up, the method allows to generate an indication of availability of the contents of the respective buffer segment to at least one data destination device operating in a respective clock domain. The clock domain of the at least one source device is distinct than the clock domain of the at least one destination device.

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